Datasheet for ABIN7556083

YTHDC2 Protein (AA 1-1430) (His tag)

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Overview

Quantity:	1 mg
Target:	YTHDC2
Protein Characteristics:	AA 1-1430
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This YTHDC2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant YTHDC2 Protein expressed in mammalian cells.
Sequence:	MSRPSSVSPR QPAPGGGGGG GPSPCGPGGG GRAKGLKDIR IDEEVKIAVN IALERFRYGD QREMEFPSSL TSTERAFIHR LSQSLGLVSK SKGKGANRYL TVKKKDGSET AHAMMTCNLT HNTKHAVRSL IQRFPVTNKE RTELLPKTER GNVFAVEAEN REMSKTSGRL NNGIPQIPVK RGESEFDSFR QSLPVFEKQE EIVKIIKENK VVLIVGETGS GKTTQIPQFL LDDCFKNGIP CRIFCTQPRR LAAIAVAERV AAERRERIGQ TIGYQIRLES RVSPKTLLTF CTNGVLLRTL MAGDSTLSTV THVIVDEVHE RDRFSDFLLT KLRDLLQKHP TLKLILSSAA LDVNLFIRYF GSCPVIYIQG RPFEVKEMFL EDILRTTGYT NKEMLKYKKE KQQEEKQQTT LTEWYSAQEN SFKPESQRQR TVLNVTDEYD LLDDGGDAVF SQLTEKDVNC LEPWLIKEMD ACLSDIWLHK DIDAFAQVFH LILTENVSVD YRHSETSATA LMVAAGRGFA SQVEQLISMG ANVHSKASNG WMALDWAKHF GQTEIVDLLE SYSATLEFGN LDESSLVQTN GSDLSAEDRE LLKAYHHSFD DEKVDLDLIM HLLYNICHSC DAGAVLIFLP GYDEIVGLRD RILFDDKRFA DSTHRYQVFM LHSNMQTSDQ KKVLKNPPAG VRKIILSTNI AETSITVNDV VFVIDSGKVK EKSFDALNFV

	TMLKMVWISK ASAIQRKGRA GRCRPGICFR LFSRLRFQNM LEFQTPELLR MPLQELCLHT KLLAPVNCPI ADFLMKAPEP PPALIVRNAV QMLKTIDAMD TWEDLTELGY HLADLPVEPH LGKMVLCAVV LKCLDPILTI ACTLAYRDPF VLPTQASQKR AAMLCRKRFT AGAFSDHMAL LRAFQAWQKA RSDGWERAFC EKNFLSQATM EIIIGMRTQL LGQLRASGFV RARGGGDIRD VNTNSENWAV VKAALVAGMY PNLVHVDREN LVLTGPKEKK VRFHPASVLS QPQYKKIPPA NGQAAAIKAL PTDWLIYDEM TRAHRIANIR CCSAVTPVTI LVFCGPARLA SNALQEPSSF RVDGIPNDSS DSEMEDKTTA NLAALKLDEW LHFTLEPEAA SLLLQLRQKW HSLFLRRMRA PSKPWSQVDE ATIRAIIAVL STEEQSAGLQ QPSGIGQRPR PMSSEELPLA SSWRSNNSRK SSADTEFSDE CTTAERVLMK SPSPALHPPQ KYKDRGILHP KRGTEDRSDQ SSLKSTDSSS YPSPCASPSP PSSGKGSKSP SPRPNMPVRY FIMKSSNLRN LEISQQKGIW STTPSNERKL NRAFWESSIV YLVFSVQGSG HFQGFSRMSS EIGREKSQDW GSAGLGGVFK VEWIRKESLP FQFAHHLLNP WNDNKKVQIS RDGQELEPLV GEQLLQLWER LPLGEKNTTD **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	YTHDC2
Alternative Name:	YTHDC2 (YTHDC2 Products)
Background:	3'-5' RNA helicase YTHDC2 (EC 3.6.4.13) (YTH domain-containing protein 2) (hYTHDC2),FUNCTION: 3'-5' RNA helicase that plays a key role in the male and female germline by promoting transition from mitotic to meiotic divisions in stem cells (PubMed:26318451, PubMed:29033321, PubMed:29970596). Specifically recognizes and binds N6-methyladenosine (m6A)-containing RNAs, a modification present at internal sites of mRNAs and some non-coding RNAs that plays a role in the efficiency of RNA processing and stability (PubMed:26318451, PubMed:29033321). Essential for ensuring a successful progression of the meiotic program in the germline by regulating the level of m6A-containing RNAs (By similarity). Acts by binding and promoting degradation of m6A-containing mRNAs: the 3'-5' RNA helicase activity is required for this process and RNA degradation may be mediated by XRN1 exoribonuclease (PubMed:29033321). Required for both spermatogenesis and oogenesis (By similarity). {ECO:0000250|UniProtKB:B2RR83, ECO:0000269|PubMed:26318451, ECO:0000269|PubMed:29033321, ECO:0000269|PubMed:29970596}.
Molecular Weight:	160.2 kDa
UniProt:	Q9H6S0

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months